

## **ABSTRACT**

**[1132]** A method and apparatus for creating and using a base station almanac for position determination is described. The base station almanac includes a number of records, where each record can describe a sector or a transmitter (e.g., a base station or a repeater) in a wireless communication network. Each record includes a protocol type field that indicates the one or more protocols supported by the record (e.g., IS-801, J-STD-36, GSM, W-CDMA, and so on). Each record also includes a unique sector identifier for the sector/transmitter for each supported protocol, where each identifier is defined based on the associated protocol. A record may also include multiple maximum antenna ranges (MARs), where each MAR is associated with a respective reference power level. One of the multiple MARs can be selected for use for position determination depending on received signal strength. The base station almanac further includes other features.